

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 175

Country: Kiribati

Part 1: Recent Climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2022	Feb-2022	Mar-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Beru (1932-2022)	164.6	18.8	30.6	25.3	141.3	60.7	25/66
Butaritari (1931-2022)	196.2	305.8	179.4	188.5	403.7	290.5	24/85
Kanton (1937-2022)				20.1	65.0	40.0	
Kiritimati (1921-2022)	12.0	7.4	11.0	72.6	154.7	96.0	4/97
Tarawa (1950-2022)	67.4	69.1	68.4	113.4	275.0	179.0	19/75
Arorae (1950-2022)	112.6	10.7	6.8	49.0	196.0	88.0	5/56

TABLE 2: Three-month Total Rainfall for January to March 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Beru (1932-2022)	214.0	Normal	126.3	502.0	292.3	28/66
Butaritari (1931-2022)	681.4	Normal	673.3	1120.3	833.3	30/85
Kanton (1937-2022)			45.3	215.8	111.9	
Kiritimati (1921-2022)	30.4	Below normal	107.7	278.9	197.0	5/96
Tarawa (1950-2022)	204.9	Below normal	347.2	940.4	687.8	17/75
Arorae (1950-2022)	130.1	Below normal	172.3	677.7	407.0	17/55

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

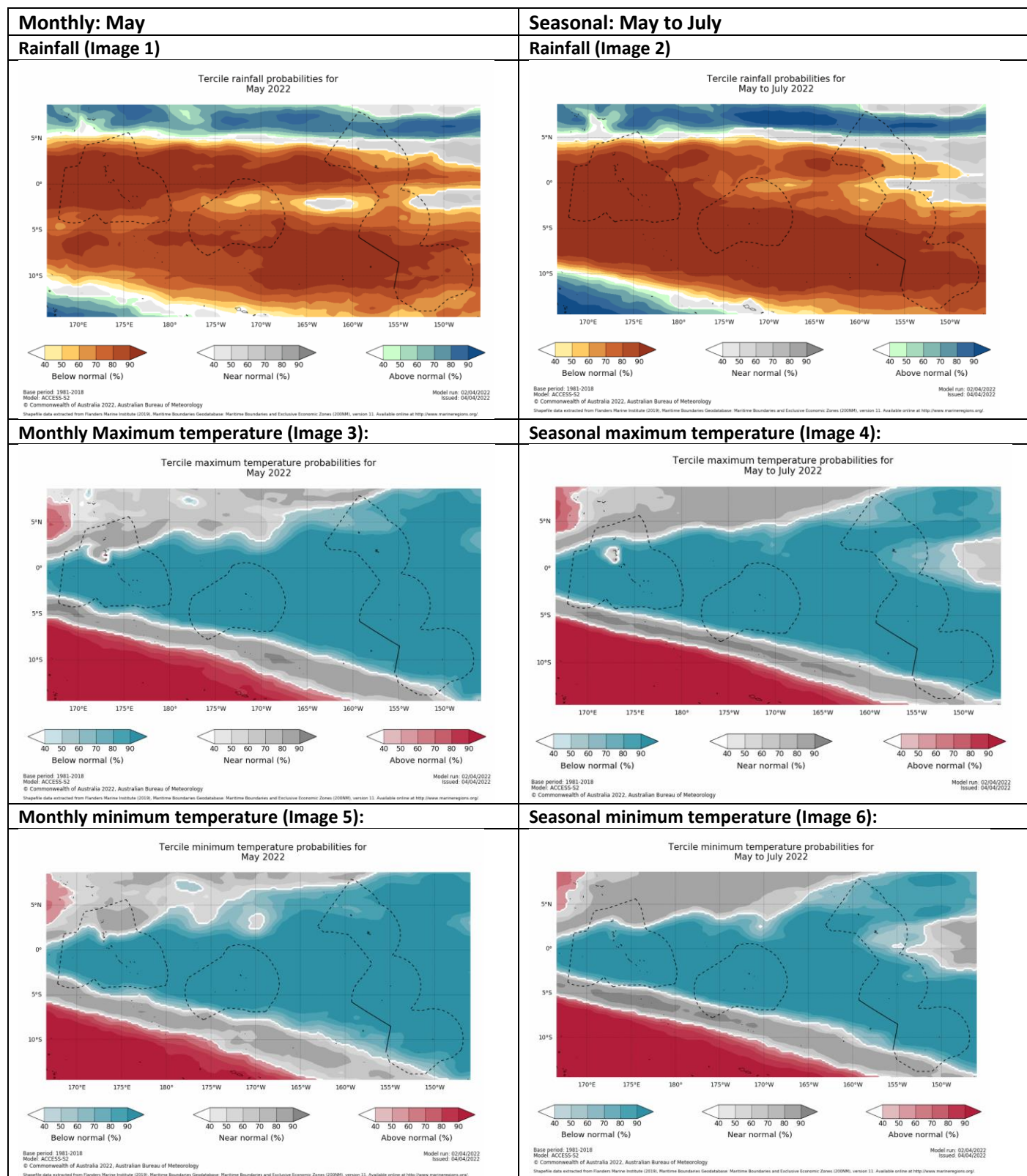
Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2022



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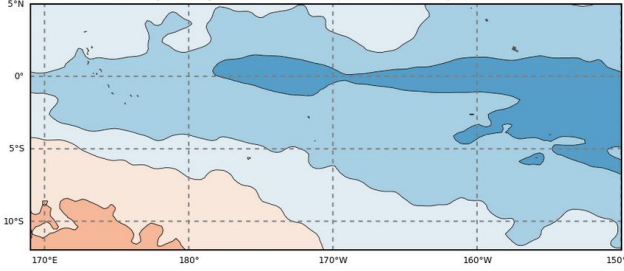
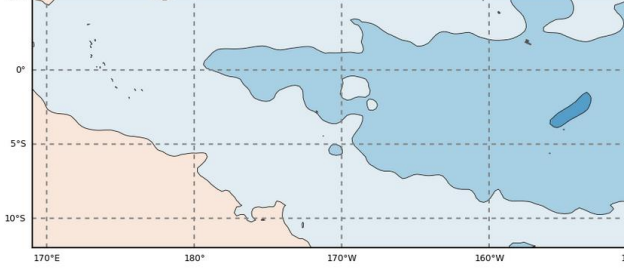
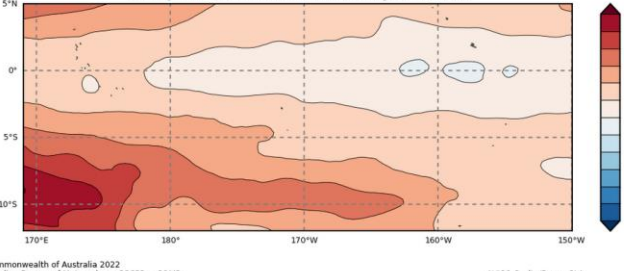
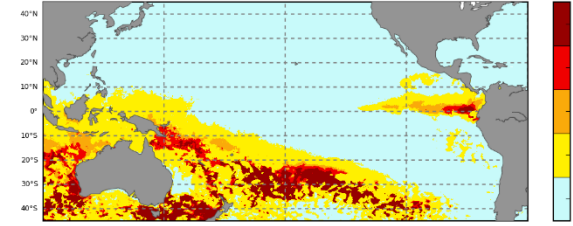
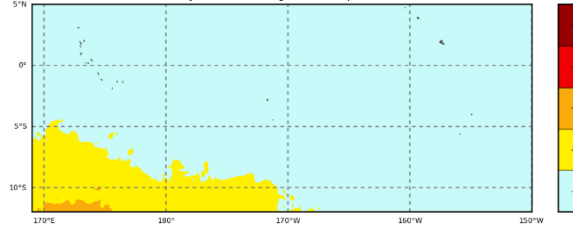
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Part 2: Recent Ocean summary statement

Monthly: March 2022

<p>Monthly: March</p>	<p>Last three months: January to March 2022:</p>
<p>Sea Surface Temperature (Image 1):</p>	<p>Sea Surface Temperature (Image 4):</p>
<p>Kiribati</p> <p>Monthly Average Sea Surface Temperature Anomaly: March 2022</p>  <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>Reynolds SST</p>	<p>Kiribati</p> <p>3 monthly Average Sea Surface Temperature Anomaly: January 2022 to March 2022</p>  <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>	
<p>Kiribati</p> <p>Monthly Near Real Time Sea Level Anomaly: March 2022</p>  <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>AVISO SeaLIS/Duacs SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>	
<p>Pacific Ocean</p> <p>Daily Coral Bleaching Alert: 04 April 2022</p>  <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>	<p>Kiribati</p> <p>Daily Coral Bleaching Alert: 04 April 2022</p>  <p>©Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPPac COMP</p> <p>NOAA Coral Reef Watch</p>

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Part 2i. Monthly and Seasonal Outlooks for May and May to July 2022

Monthly: May	Seasonal: May to July
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for May 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegovernors.org/</p> <p>Model run: 09/04/2022 Issued: 11/04/2022</p>	<p>Difference from average sea surface temperature forecast for May to July 2022</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009), version 11. Available online at http://www.marinegovernors.org/</p> <p>Model run: 09/04/2022 Issued: 11/04/2022</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<p>Difference from average sea surface height forecast for May 2022</p> <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018</p> <p>Model Run: 28/03/2022 Issued: 31/03/2022</p>	<p>Difference from average sea surface height forecast for May 2022 to July 2022</p> <p>© Commonwealth of Australia 2022 Bureau of Meteorology</p> <p>Model: ACCESS-S2 Base Period: 1981-2018</p> <p>Model Run: 28/03/2022 Issued: 31/03/2022</p>
4-week Coral Bleaching (Image 9):	
<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 24 April 2022</p> <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p> <p>NOAA Coral Reef Watch</p>	<p>Kiribati 4 Weeks Coral Bleaching Outlook: 01 May 2022</p> <p>© Commonwealth of Australia 2022 Australian Bureau of Meteorology, COSPac COMP</p> <p>NOAA Coral Reef Watch</p>

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Summary Statement

Monthly and last three months: March 2022/January to March 2022 statement (Highly significant changes)

Below normal rainfall was recorded at all stations in March 2022 except for Beru with normal rainfall. Kiritimati and Arorae recorded their fourth and fifth driest March on record respectively.

For the three months period, below normal rainfall was received in Kiritimati, Tarawa and Arorae while Beru and Butaritari were normal. This was the fifth driest January to March on record at Kiritimati.

Rainfall data for Kanton is still not available.

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2022

Monthly /Seasonal rainfall and temperature Outlook statements (Highly significant changes)

The rainfall outlook for Kiribati for May and May to July 2022 is very likely to be below normal except for northern most islands in the Line group which likely to be near normal.

The monthly and seasonal maximum and minimum temperature are very likely to be below normal however some parts of the Gilbert group are very likely to be near normal.

Part 2: Recent Ocean summary statement

Monthly and last three months: March/January to March 2022 (Highly significant changes)

Cool sea surface temperature has been recorded over the last one and three months, ranging from -0.5 to -1.5 degree Celsius.

Monthly sea level increased across Kiribati groups of up to 0.1meters or within the range of 0 to 100mm. Phoenix and Line groups revealing normal sea levels while Gilbert experiencing above normal sea level anomaly.

The daily coral bleaching alert shows no thermal stress for the Kiribati region.

Part 2i. Monthly and Seasonal Outlooks for May and May to July 2022

Ocean Variable statement (Highly significant changes)

The monthly and seasonal outlook for Kiribati shows a significant temperature difference -1.2 to 0.4 degrees.

Gilbert group shows a significant increase in sea level of up to 0.06 meters for May and May to July 2022. The rest of the island groups are neutral.

The 4-weeks coral bleaching shows no thermal stress for Kiribati.

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TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: March 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate and Ocean Bulletins	3 rd	Government and Non- Government Organisations and public subscribed to the products	118	45	73
Media release	3 rd	National Media and KMS Staffs	53	23	30
Total			171	68	103

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